

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
SUPERFUND SITE STRATEGY RECOMMENDATION - REGION 06**

Site Name: Patrick Bayou

CERCLIS ID#: TX0000605329

Alias Site Names:

Address:

Headwaters located .34 miles north of State Highway 225; Lat. 29-43-55 North Long. 95-06-52.5 West

City/County or Parish/State/Zip Code:

Deer Park, Harris County, TX

Report Type, Date, and Author:

Preliminary Assessment/Screening Site Inspection, TNRCC November 2000

RECOMMENDATION:

☐ 1. No Further Remedial Action Planned under Superfund (NFRAP)

☒ 2. Further Investigation Needed Under Superfund

☐ PA ☐ SSI ☐ ESI ☐ SI

☒ HRS ☐ RA ☐ RI/FS

To be performed by: TNRCC

Other:

Priority: ● High ○ Low

3. Action Deferred ☐ RCRA

☐ NRC

NOTIFY AUTHORITY:

☐ Removal

☐ SMCRA

☐ NRC

☐ UIC

☐ RCRA

☐ Remedial

☐ Resource Trustee

☐ SPCC

☐ TSCA

☐ State/Tribe

☐ CERCLA Enforcement

☐ Other

☐ CAA

☐ NPDES

☐ Federal Facility

SEND SSSR COPIES TO:

☐ 6SF-AC

☒ 6WQ-SP

☐ ATSDR

☒ State Agency ☐ Tribal Agency

DISCUSSION:

Patrick Bayou (PB) is one of several small tributaries of the Houston Ship Channel located within the lower portion of the San Jacinto River Basin as it enters Galveston Bay in southeast Texas. The Houston Ship Channel (HSC) is the channelized portion of Buffalo Bayou which discharges into Galveston Bay and the Gulf of Mexico. The "site" is defined as the bounds of PB, which originates below a series of culverts located approximately .34 miles north of State Highway 225 extending to its convergence with the HSC and including the East Fork portion which is also subjected to industrial discharges. PB is approximately 2.8 miles long and is normally 200 feet wide until it widens to 600 feet when it converges with the HSC.

PB is located in a highly industrialized area in southeast Harris County. The upper portion of the bayou consists of a series of open concrete storm water discharge channels installed by the City of Deer Park and adjacent industries to receive storm water and permitted wastewater discharges. The City of Houston conducted a study of the HSC in 1993-94. Sample points for the study included three locations within the bounds of PB. Results indicated high to moderate levels of DDD, DDT, polynuclear aromatic hydrocarbons (PAH), cadmium, chromium, mercury, nickel, zinc, polychlorinated biphenyls (PCB) and dioxin accumulating in Patrick Bayou. A subsequent investigation in 1994 was conducted jointly by Region 12 TNRCC and Region 6 EPA in which 10 samples were collected from locations in PB, HSC

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discharge areas within PB in order to further characterize hazardous substances and document contaminant migration in the Surface Water Pathway. Based on site knowledge and previous investigations a decision was made not to evaluate the soil, air and ground water pathways during this SSI.

The upper portion of PB and several small islands within the bayou afford wetlands vegetation for waterfowl and migratory birds as well as a significant population of nektonic species. During the SSI several fisherman were observed fishing for blue crabs, even though human consumption of blue crabs and catfish has been restricted by the Texas Department of Health. Two fish kills were reported in PB in March and September of 1990.

Based upon historical data and the information collected during this SSI, PB appears to be a candidate for the National Priorities List (NPL) of Superfund sites. it is therefore recommended that a Hazard Ranking System (HRS) package be prepared to propose the site to the NPL.

APPROVALS:

Report Reviewed by:

William

Rhotenberry/R6/USEPA/US

(Site Assessment Manager 6SF-RA)


☒ Approved ☐ Disapproved

12/11/2000

Disposition Recommended by:

☒ Approved

☐ Disapproved

(Team Leader 6SF-RA)


 12/12/00

Disposition Recommended by:

☒ Approved

☐ Disapproved

(Deputy Branch Chief 6SF-RR)

 SUSAN WEBSTER